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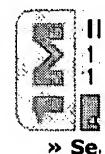
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5 <u>Design of a Machine-Independent Optimizing System for Emulator</u>
<u>Development</u>
Perng-Ti Ma, T. G. Lewis
April 1980 **ACM Transactions on Programming Languages and Systems
(TOPLAS)**, Volume 2 Issue 2

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Methods are described to translate a certain machine-independent intermediate
language (IML) to efficient microprograms for a class of horizontal
microprogrammable machines. The IML is compiled directly from a high-level
microprogramming language used to implement a virtual instruction set processor
as a microprogram. The primary objective of the IML-to-host machine interface
design is to facilitate language portability. Transportability is accomplished by use
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Machine-adaptable dynamic binary translation

David Ung, Cristina Cifuentes

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Dynamic binary translation is the process of translating and optimizing executable code for one machine to another at runtime, while the program is "executing" on the target machine.

Dynamic translation techniques have normally been limited to two particular machines; a competitor's machine and the hardware manufacturer's machine. This research provides for a more general framework for dynamic translations, by providing a framework based on specifications of machines that ...

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